ALLAN W. H. BÉ

Log of Biological Collections and Observations

R. V. Vema V-7, Leg 4.

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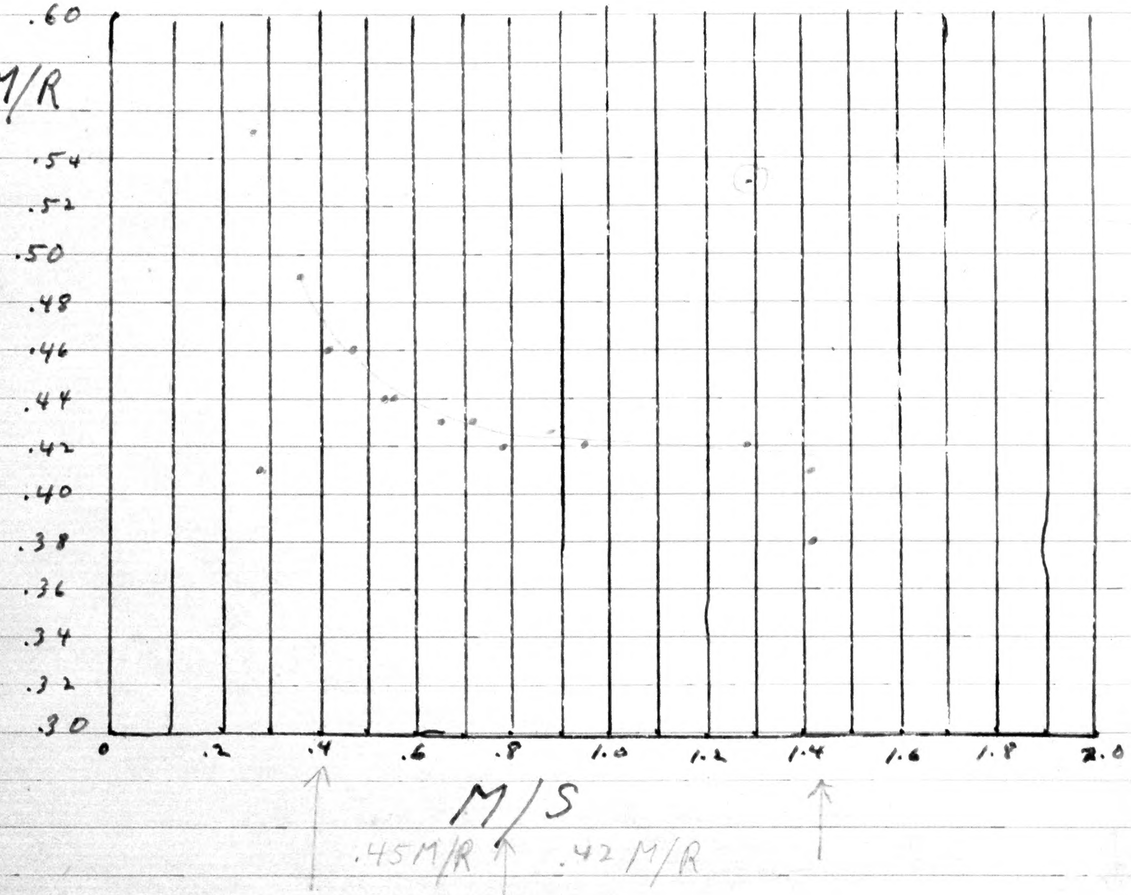
Met calibration Aug. 3, 1955 Cont.



∴ use .44 M/R ± .02 = ± 5%

K2 Met use 1 M³/min.

August 3, 1955

Calibration of Clarke-Bumper meter

Distance used = 15.5 yards ± ½ yard or with 3%

Time Up	Revs. Up.	Time Down	Revs. Down
15 sec.	34	10 sec.	37
11 "	27 (wind may have blown meter)	18 "	34
22 "	33	20 "	33
26 "	32	27 "	32
30 "	31	40 "	29
35 "	31	50 "	26
50 "	~~35~~ 35	10 "	35
11 "	34		

15.5 yards = 14.2 meters ; no significant difference between up and down

Meters/Sec.	vs. Meters per Revolution	M/S	vs. M/R
.95	.42	1.42	.38
1.29	.53	.79	.42
.65	.43	.71	.43
.55	.44	.53	.44
.47	.46	.36	.49
.41	.46	.28	.55
.28	.41	1.42	.41
1.29	.42		

August 5, 1955

1st messenger speed = ~~2.5~~ 3.8 meters/sec.

2nd messenger speed = 2.5 meters/sec

both measured at 20° wire angle
on ½ inch diameter wire

VERTICAL PROFILE 5 Aug 1955

Speed: 2 knots

V 7 - 7

Time net open 1255 depth 10 fms Closed 1305
at 30 fms at each depth for 10 min = 20 min.
Vol. water filtered between 10-30 fms = 1400 M^3 Tow.
Displacement vol. of plankton = 24 cc
Wire ∠ = 20°

Lat.	Long.	Stat	Lat	Long	Fms

FORAMS

Species	specimen	Size in mm
Coml ally of 415 ml. sample.		
" "		
globigerina sp.	1	0.5/mm.

17 ml. displ. volume in 1000 M^3

positive on V7-1

Calibration of ocular micrometer in AO scope 336951

1 = .93 mm

9X : 4.3 major divisions = 4 mm.

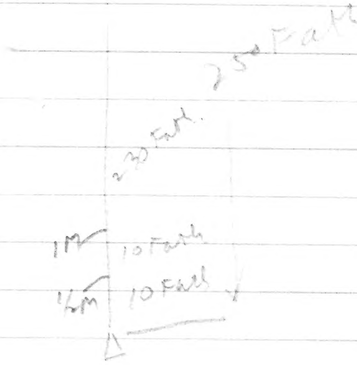
27X : 3 major divisions = 1 mm.

54X : 6 major divisions = 1 mm.

Depth of Focus

All tests called for the M were made in the following manner:

Slo 1/2 M set was put on platform under the objective. The M set was put on platform under the objective. No metal rod was placed under the objective. The platform at a distance of 250 fathoms was set and at this distance the rate was left at least 2 minutes before reading it. Speed of second hand was constant.



August 5, 1955

Sample V7-7 see 3 pages back

1 M net

Depth 20-60 meter

Time 1205-1305 = 10 mins

Wire ∠ 20°

Vol. H2O filtered 700 M3

Displ. vol = 24 ml.

34 ml displ. vol. in 1000 M3

practically same as V7-1

200 meters.

August 5, 55

V7-8

Time retrieved: 1318, depth 50 fms 10 min, closed: 1340, = 22 min.

depth 100 fms 10 min

Vol. water filtered 1540 M3

Displ. vol. plankton = 14 cc

Wire ∠ 40°

Start		Finis	
Lat	long	Lat	long.

10 ml. displ. vol. in 1000 M3

practically same as V7-1

300
600 meters

August 5, 1955

V 7-9

time net open: 1405, depth 150 fms, 10 min, to = 15 min.
300 fms 10 min, closed at 1420 at 300 fms
displ. vol. plankton = 2cc
wire < 32°
vol. water filtered - 1050 M3

Start		Finis	
Lat	Long	Lat	Long.

2 ml. = displ. vol. in 1050 M3

portion same as V 7-1

555°
2
1100 meters.

August 5, 1935

V 7–10

time open: 1452 at 350 fms, 20 min to
550 fms 20 min, closed 1535 = 43 min.
vol displ. = 25 cc
wire ∠ = 40°
vol water filtered = 3000 m3
20 % living when brought up.

8 mm = displ. vol in 10³ m³

protein sample no. V7-1

650
300 metres.

August 5, 1955

V7-11

Time open = 1621, at 650 fms, 15 min,
closed 1636 at 650 fms. = 15 min.
wire C = 40°
displ. vol = 2cc.
vol. water filtered. = 1050 M³
1494 firing when bottom tripped.

FORAMS

Spp.	no	?	size mm.
globorotallia truncatulinoides	1		0.25 mm
globigerina Eggeri	1		0.50 mm

CHÆTOGNATHS

Kr subtilis	III	in 100 %	= 3/10³M³
S. lyria	III	" 100 %	= 3/10³M³
S. macrocephala	I	in 100 %	= 1/10³M³
S. sp. ?			
S. sp. ?	3	in 100 %	= 3/10³M³
S. sp. ?			

2 ml. = displ. vol. of 1000M³

printing on V7-1

August 5, 1955

Sample RV7-1
1 M net

Depth 0-25 meter net tow
Time 0048-0055 = 7 min.
Wire ∠ 20°
Vol. H2O fil. = 490 M³
Displ. vol. = 37 ml.

76 ml. = displ vol / 10³ M³

32-39N, 64-23W

August 5, 1955

Sample RV7-2
1 M net

Depth ~~12~~ 25-50 M
Time 0140-0146 = 6 min.
Wire ∠ 20°
Vol H2O fil. = 420 M³
Displ. vol. = 2 ml.

5 ml = displ. vol. / 10³ M³

prot. ... = V7-1

August 5, 1955

Sample RV7-3
1 M. net

Depth 25-50 M
Time 0202-0213 = 11 min.
Wire angle 20°
Vol. H_2O fil. = 770 M^3
Displ. vol. = 8 ml.

10 ml. = displ. ml / 10^3 M^3

post exam on V7-1

August 5, 1955

Sample RV7-4
1 meter net

Depth 200-400 M
Time 0220-0245 = 25 min.
Wire angle 22°
Vol. H_2O fil. = ± 1750 M^3
Displ. vol. = 1 ml.

0.5 ml. = displ. vol. / 10^3 M^3

post exam V7-1 same

August 5, 1955

~~Sample RV7-5~~
~~1 M net~~

Depth 2000 - 3000 M
Time 0337 - 0447 (net in 0300 out ?) = 70 mins.
Wire ∠ 25°

Note: Net fouled around wire due to too rapid descent of net. No sample obtained. Actual amount of wire out was 900 - 1400 fathoms due to slippage of meter wheel.

Daybreak dist 0430

August 5, 1955

Sample RV7-5
1 M net

Depth 0 - 320 M (450 fathoms)
Time 0617 - 0650 = 33 min.
Wire ∠ 40°
Meter out 31322
in 26076
5246

Vol. water filtered = 2300 M^3 @ $\frac{2300 M^3}{33 min.}$ = 70 M^3/minute
Displ. Vol. [illegible]

[illegible]

August 5, 1955

Sample VR7-6
½ Mnet

Depth 0 –
Time 0911
Vol. H₂O filtered
Displ. Vol.

Vertical tow from bottom to surface w the piston corer.

portion same as V7-1

See front of log for samples
VR7-7 – VR7-11

SERIAL NO. 1554

August 7, 1955 (Sunday)

Sample VR 7-12
½ M net

Depth 0-300M
Time 1613-1636 23 mins.
Wire ∠ 55°, 50, 50, 50°
Vol. H2O filtered
Displ. vol: 8 ml wc.

60-14W, 34-10N

SERIAL NO. 1555

August 8, 1955 (Monday)

Sample VR 7-13
½ M net

Depth 0-300 M.
Time 0649 - 0710 = 21 mins ~~22 mins~~
Wire ∠ 65° @ 0649, 65° @ 0653, 60° @ 0657 (250 Fath w.o.)
60° @ 0659, 55° @ 0702, 50° @ 0703, 35° @ 0707.
Vol. H2O filtered
Displ. vol: 10 ml wc.

35-14N, 59-30W

August 8, 1955

Miscellaneous Notes

We have been in sargasso weed ever since the first station. Usually the clumps are about one foot in diameter and very patchy in their distribution (ranged from 100 to several hundred yards apart usually). Menzies reported seeing red-billed tropic birds our first day out. Flying fish common the first 2 days, less common since.

At the first station there were many blue-grey triggerfish from 4-8 inches long swimming about the sargasso weed.

SERIAL NO. 1556

August 8, 1955

Sample V7-14
½ M net

Depth 0-300M
Time 1822-1853 31 mins.
Wire L 20°, 1823-40°, 1825-40°, 1835-45°, 1837-40°, 1839-40°, 1846-40°.
Vol. H2O filtered:
Displ. vol: 12 ml wc.

35-22 N) 55-23 W
22 57 D

SERIAL 1557

August 9, 1955

Sample V7-15
½ M net (BT wire)

Depth 0-300M
Time 1638-1707 down 1649 = 29 mins.
Wire L 50°, 55°-1641, 60°-1642, 62°-1644
Vol. H_2O filt:
Displ. vol: 10 ML

35-07 N, 57-39 W

SERIAL NO. 1558

August 9, 1955

Sample V7-16
½ M net (BT wire)

Depth 0-150M
Time 1707-1721 down 1712 = 14 mins.
Wire L 55°
Vol. H_2O filtered:
Displ. vol: 6 ml ea.

35-11 N, 57-35 W

SERIAL NO. 1559

a August 10, 1955

Sample V7-17
½ M net

De Depth 0 - 530M
T Time 0612 - 0635 down 0625 = 23 min.
W Wire ∠: 55°, 60°, 62°, 60°, 65°; down 58°, 55°, 55°
Vol Vol. H₂O filtered
Di Displ. vol:

35-20N, 57-50W

August 10, 1955

Sample V7-18
½ M net

Depth 0-1700 feet
Time 1345 - 1357 = 12 min.
Wire ∠ 25°, 25°, 45°, 45°, 30° - 2 min apart
Vol. H₂O filtered
Displ. vol: 2 ML

35-20N, 57-35W

SERIAL NO. 1560

for August 10, 1955

Obtained two small samples from Clarke-Bumpus nets attached to repeating camera sta. 10 #1. Both contained small amounts of fossil gastropods as in previous camera sample (camera sta. # 9) and some plankton.

While on station sta. 10 plate 1 a single trigger fish was seen about 8" long.
We continue to see scattered small clumps (1 ft in diameter or less) of sargassum.

August 11, 1955

Sampler V7-19 a = 1 M net; b = ½ M net
½ M net

Depth 0-300 M
Time: 1447 - 1518 = 31 mins.
Vol. H2O filtered:
Displ. Vol: 16 ml cc.

1 M net

Depth: 0-300 M
Time: 1452 - 1517 = 25 mins.
Wire: 55, 55, 55, 51, 50, 48, 45, 43, 40, 39 at max.,
40, 40, 42, 47, 50, 53, 57, 60 night
Vol. H2O filtered:
Displ. Vol: 77 ml cc.

56 - 46 m, 36 - 31 m
45 41

SERIAL NO. 1561

August 12, 1955

Samples V7-20 a+b
½ M net

Depth: 0-300M
Time: 0635-0706 = 31 mins.
Vol. H_2O filtered:
Displ. Vol: 12 ml = 22 ml/1000M³

1 M net

Depth: 0-300M
Time: 0640-0704 = 24 mins.
Wire: 70, 55, 65, 65, 60 at mm; 52, 50, 50, 45, 50.
Vol. H_2O filtered:
Displ. vol: 38 ml = 22 ml/1000M³

37-55N, 59-05W
57 02

SERIAL NO. 1562

August 12, 1955

Samples V7-21 a+b
½ M net

Depth: 0-300M
Time: 1940-2004 = 24 mins.
Vol. H_2O filtered:
Displ. Vol: ~~1 ml = 5 ml/1000M³~~
11 ml.

1 M net

Depth: 0-300M
Time: 1942-2002 = 20 mins.
Wire: 50, 50, 45, 45, 45, 43, 40 at mm 34, 28, 1955 22, ~~24~~, 1957 26, 30, 34, 40, 40, 2001 65.
Vol. H_2O filtered:
Displ. vol:

61-10W, 38-12N
11

SERIAL NO. 1563

August ~~13~~ 12, 1955

Sample V7-22
½ Meter net

Depth: 0 - 1 meter, drifting on camera station #
Time: 2140 - 2235 = 55 mins.

~~Depth of = total = 2 mi / 10⁴ ft³~~
~~3 mi.~~

~~see protein sp V7-21~~

August 13, 1955

Got a sample from each C-D net on the camera at camera station # 12. One net tow very badly discarded. Samples consisted of crabs, glass sponge, sediment & plankton remains, one little star and a large pentelid. One of the photographs shows a pentelid very clearly. Also took weed gastropod & a deep sea pectin with a limpet attached to it.

We were all set to make a net tow at 0630 this morning and had the weight over the side when the captain came out on deck and made us stop. The weather is bad, lots of fog and bad - still some rain coming. Yesterday morning the character of the sea changed - more confused - and the water has been less clear since then. Mengis reported seeing another planimetric yesterday.

Camera sta #12: Ens Ray Renshaw, Nav 3, 1956
Date: Aug. 12, 1955
Posit: 38-04N, 61-05W
Depth: ~~2170~~ - 1743 - 2520 fath
Time: 2210 - 2353
side of sea mount.

August 13, 1955

Sample V7-23 a+b. ~~no sample V7-22~~
½ M net

Depth: 0-300 M
Time: 1809-1848 = 39 min.
Vol. H₂O filtered:
Displ. Vol:

1 M net

Depth: 0-300 M
Time: 1813-1846 = 33 min.
Wire ∠: 1810-15, 30, 32, 35, 37, 40, 45, ~~45~~, 49, 50, 54, 55, 64, 50, 60+down, 50, 65, 55, 55, 1832-~~55~~ 50
Vol. H₂O filtered:
Displ. Vol:

63-10W, 38-37N

August 13, 1955

Sample V7-24 (½+1M samples combined ~~frozen as one sample~~ → V7-23
½ M net

Depth: 0-300 M
Time: 1841-1908 = 27 min.
Vol. H₂O filtered:
Displ. Vol: 10 ml.

1 M net

Depth: 0-300 M
Time: 1844-1905 = 21 min.
Wire ∠: 35, 35, 40, 40-1848, 40, 38, 35, 45, 35+down, 40, 40, 40 Down at 1851 started up at 1855
Vol. H₂O filtered:
Displ. vol: 40 ml.

SERIAL NO. 1565

August 14, 1955

Sample V7-25
½ Manet

Depth: 0-300M
Time: 0927-0958 = 31 mins.
Vol. H₂O filtered:
Displ. Vol: ~~8 ml~~ ~~10 ml~~ 9 ml.

1M net

Depth: 0-300M
Time: 0930-0956 = 26 mins.
Wire L: 65-0931, 63, 60, 60, 55, 55, 52, 51, 40, 0943-20, 0944-10, 40, ~~replace~~ 60. Maximum at 0939 wL 40°. start in at 0943, wL. 40°.
Vol. H₂O filtered:
Displ. vol: 62 ml. = 33 ml / 10³ m³

39-55N, 64-00W.
See notation on next page.

August 14, 1955.

For net tow V7-25 the ship's speed was cut at 0922 and ship's speed resumed at 1000. A strong current set the nets under the ship during the tow even though the wind and sea were off our starboard beam. The low wire L's given on the opposite page should not be used to determine the depths nets because they are low to the nets going under the ship. Use 40°.

Just as the ship started to resume her cruising speed, we crossed a front or convergence marked by a slick about 5 feet wide standing as far as we could see on either side of the ship (about 300 yards). In the center of the slick was a ~~s~~ solid band of sargassum weed about two feet wide. The edges of the slick were lined with foam. The bearing of the front ran from approximately 45°T to 225°T. The surface temperature on the southeasterly side of the slick was 76.5°F, on the northwesterly side 75.0°F, a distance of 200 yards between the two observations. A BT was taken just after we crossed the slick to the north.

Presumably the net tow was taken to the south of the slick. As the trigger weight was being brought on board, a small clump of sargassum

was sighted at a depth of about 10 meters attached to the wire and was removed as it came up to the ship. The BT showed three marked temperature inversions.

SERIAL NO. 1566

August 14, 1955

Sample 07-26
½ M net

Depth: 0-300 M
Time: 1754-1819 = 25 min.
Vol. H2O filtered:
Displ. vol: 18 ml.

1 M net

Depth: 0-300 M
Time: 1758-1816 = 18 min.
Wire L: 1758-50, 1759-55, 1800-60, 1801-60, 1802-55, 1804-53, 1806-53-Max. depth, 1808-55, 1811-51, 1812-57, 1814-57, 1815-70
Vol. H2O filtered:
Displ. vol:

50 D

SERIAL NO. 1567

August 15, 1955

Sample V7-27
½ Meter

Depth: 0-300M
Time: 0855-0923 = 28 min.
Vol. H2O filtered:
Dissol. vol: 12 ml. = 4 ml. / 100 M³ = 37 ml. / 100 M³ = 9 ml.

1 Meter

Depth: 0-300M
Time: 0858-0920 = 22 min.
Vol. L: 0858-52, 0902-45, 0904-40, 0906-38, 0908-50, 0911-65, 0912-73
0915-67, 0917-70, 0919-70 max 0907-38 + 0909-55.
Vol. H2O filtered: 1600 M³
Dissol. vol: 53 ml. = 33 ml. / 100 M³

42-53 62-67 Dun

Water depth about 500 fathoms.

SERIAL NO. 1568

August 15, 1955

Sample V7-28
½ Meter

Depth: 0-300M
Time: 1740-1806 = 26 min.
Vol. H2O filtered:
Dissol. vol: 4 ml.

1 Meter

Depth: 0-300M
Time: 1742-1804 = 22 min.
Vol. L: 1744-55, 1745-57, 1746-59, 1747-59, 1748-59, 1749-59, 1750-59,
1755-59, 1756-60, 1757-60, 1758-60, 1759-62, 1800-62, 1801-61
max. 1752-58 + 1754-58.
Vol. H2O filtered:
Dissol. vol: 21 ml. = 13 ml.

51 D

Water depth 200 fathoms

SERIAL NO. 1569

August 16, 1955

Sample V7-29 warm water fauna
½ M net

Depth: 0-300M
Time: 0823-0855 = 32 min.
Vol. H2O filtered: 3 m³
Displ. vol: 3 ml. = 10 ml / 103 m³ = 8 ml.

1M net

Depth: 0-300M
Time: 0827-0851 = 24 min.
Wire #: 0827-55, 0828-57, 0830-55, 0832-50, 0834-50, 0836-52, 0842-50, 0844-47, 0846-45, 0848-48, 0850-52, max. 0838-57 and 0840-52.
Vol. H2O filtered:
Displ. vol: 38 ml. = 22 ml. / 103 M³

SERIAL NO. 1570

August 16, 1955

Sample V7-30
½ M net

Depth: 0-300M
Time: 1745-1815 = 30 min.
Vol. water filtered:
Displ. vol: 4 ml.

1M net

Depth: 0-300M
Time: 1754-1812 = 18 min.
Wire #: 1745-55, 1755-65, 1757-60, 1759-60, 1801-58, 1803-59, 1805-59, 1806-58, 1807-58, 1808-60, 1809-59, 1810-60, 1811-62, max. 1802-52 & 1804-58
Vol. H2O filtered: see note below
Displ. vol: 12 ml.

10 ml bridle broke and net probably did not fish most of time.

SERIAL NO. 1571

August 16, 1955

A yellow warbler flew aboard this afternoon and spent about one-half hour on and about the ship. Two jaegers - probably pomarine - followed the ship this afternoon for about a half hour. A small, sooty bird also was seen - possibly a petrel. About six jaegers were about the ship yesterday afternoon. Yesterday evening (1574) Mangies reported seeing a school of porpoises - about 50 in the school. Three or four came very close to the ship. He said they were dusky and had white bellies but were not sharply limited in the extent (not Dall's porpoise).

August 17, 1955

Sample V7-31

½ M net

Depth: 0-300M
Time: 1751-1820 = 29 min.
Vol. H₂O filtered:
Displ. vol: 3 ml.

1 M net

Depth: 0-300M
Time: 1753-1823 = 30 min.
Wire ℄: 1753-50, 1755-50, 1756-50, 1757-49, 1754-42, 1800-46, 1802-48, 1804-45, 1805-45, 1806-45, 1807-44, 1808-42, 1809-38, 1810-36, 1812-36, 1813-36, 1814-37, 1815-38, 1816-37, 1817-40, 1818-41 at surface 1806-1838
Vol. H₂O filtered:
Displ. vol: 66 ml. = 32 ml./500M³

Floating Furcan sighted

August 18, 1955

Sample V7-32
1m net

Depth: 0-300M
Time: 0854-~~0917~~ 0924 = 30 min.
Vol. H2O filtered:
Displ. vol: 12 ml. = 40 ml/100 M3

1M net

Depth: 0-300M
Time: 0857-~~0924~~ 0919 = 22 min.
Wind: 0857-65, 0859-66, 0859-63, 0900-61, 0901-60, 0902-59, 0903-59, 0904-60, 0905-60, 0906-60, 0907-60, 0908-59, 0909-58, 0910-58, 0911-58, 0912-60 Bieri, 0913-59, 0914-59, 0915-55 Menzies, 0916-59 0917-58. rain depth at 0909-0911.
Vol. H2O filtered:
Displ. vol: 32 ml. = 20 ml/100 M3

August 18, 1955

Sun came out during the morning net tow for the first time in three days. This afternoon we had about two hours of a warm to cool rain.

Crossed from steel gray to blue water between BT #V7-622 + V7-623. at 623 saw a small patch of sargassum weed (1330). Later (1630) passed several more slicks + we brought a board for examination.

The boundary between gray and blue water is broken or intermittent.

During the evening tow (next page) about 20 petrels (mill white rumps) were playing about the stern of the ship.

SERIAL NO. 1656

August 18, 1955

Sample U7-33

½ Mnet

Depth: 0-300M

Time: 1749-1812 = 23 mins. ✓

Vol. H₂O filtered: 27 M³

Dripl. vol.: 18 ml. = 67 ml/10³M³

1M net

Depth: 0-300M

Time: 1751-1810 = 19 mins.

Net 4: 1751-68, 1752-62, 1753-60, 1754-60, 1755-58, 1756-55, 1757-55, 1758-55, 1759-55, 1800-55, 1801-55, 1802-55, 1803-55, 1804-55, 1805-55, 1807-55, 1808-60, 1809-63, max 1751+1809.

Vol. H₂O filtered:

Dripl. vol.: 64 ml. = 46 ml./10³M³

SERIAL NO. 1657

August 19, 1955

Sample U7-34

½ M net

Depth: 0-300M

Time: 0848-0919 = 31 mins. ✓

Vol. H₂O filtered:

Dripl. vol: 10 ml. = 33 ml/

1M net

Depth: 0-300M

Time: 0850-0917 = 27 mins.

Net 4: 0851-63, 0852-55, 0853-57, 0854-53, 0855-53, 0856-50, 0857-41, 0858-41, 0859-40, 0900-40, 0901-40, 0902-42, 0903-44, 0905-44, 0906-42, 0907-45, 0908-40, 0909-40, 0910-38, 0911-35, 0912-30, 0912½-23, 0913-19, 0914-28, 0915-40, 0915½-56, 0916-64.

Vol. H₂O filtered:

Dripl. vol.: 36 ml. = 19 ml./

max 0902-44 + 0904-44.

August 19, 1955

We are still heading towards the Azores on 110°T. The sky is overcast this morning with a continuous light drizzle. The water appeared steel grey at the morning net tow, but patches of Sargassum were seen occasionally. There was no wind and little sea during the tow; so the Captain steered in a circle - could not control the wire angle.

1700 - sighted a flight of flying fish - about 10 fish for first time and heading the north. Sun has just come out + water is getting much warmer. Sargassum is quite common now.

August 19, 1955

Sample V7-35
½ Meter

Depth: 0-300M
Time: 1752-1815 = 23 mins.
Vol. H₂O filtered:
Displ. vol: 5 ml.

1M net

Depth: 0-300M
Time: 1754-1812 = 18 mins.
Wire ∠: 1754-55, 1756-55, 1757-55, 1758-50, 1759-50, 1800-55, 1801-57, 1802-57, 1803-57, 1804-55, 1805-55, 1806-57, 1807-55, 1808-57, 1809-55, 1810-60, 1811-60, 1812-60; mean 1801-1803.
Vol. H₂O filtered:
Displ. vol: 32 ml. = 23 ml.

SERIAL NO. 1574

August 20, 1955

Sample V7-36
½ M net

Depth: 0-300M
Time: 0836-0906 = 30 min.
Vol. H_2O filtered:
Displ. Vol: 6 ml.

1 M net

Depth: 0-300M
Time: 0838-0904 = 26 min.
Wire L: 0834-30, 0840-35, 0841-38, 0842-38, 0843-35, 0844-26, 0845-37, 0846-38, 0848-36, 0849-35, 0850-33, 0851-32, 0852-32, 0853-32, 0854-35, 0855-31, 0856-30, 0857-29, 0858-30, 0859-33, 0900-34 0903-40, max 0850-0852.
Vol. H_2O filtered:
Displ. vol: 43 ml. = 24 ml. / 10^3 M^3

42-17N, 48-54W D.

SERIAL NO. 1575

August 20, 1955

Sample V7-37
½ M net

Depth: 0-300 M
Time: 1749-1821 = 32 min.
Vol. H_2O filtered: = 35 M3
Displ. Vol: 17 ml.

1 M net

Depth: 0-300 M
Time: 1751-1817 = 26 min.
Wire L: 1751-65, 1752-67, 1754-65, 1756-60, 1758-60, 1800-60, 1802-60, 1804-60, 1806-60, 1808-57, 1810-55, 1812-56, 1814-62, 1816-70. max. 1803-58 + 1805-60.
Vol. H_2O filtered:
Displ. vol: 89 ml.

39-[illegible]N, [illegible]-55W D

This tow was started just as the sun was setting and but the scattering layer as it came up. At 1804 S.L depth was 140 meters, at 1810-100 M.

August 21, 1955

This morning's net tow was cancelled by the captain who said he was running south to avoid a gale to the north. Said we might be able to make one in the afternoon. ~~The~~ One of the stabilizers has been hoisted and seems to be steadying the ship although it is not slated in land enough to keep it full at all times. There is a stiff breeze blowing, but clear and by midday it is good net tow weather.

Yesterday early in the afternoon we met through several windrows of sargassum and I saw one this morning.

The evening's tow was also cancelled by the capt. but weather not that bad.

SERIAL NO. 1576

August 22, 1955

Sample V7-38
½ M net

Depth: 0-300M
Time: 0841-0914 = 33 mins.
Vol. water filtered:
Displ. vol: 10 ml.

1M net

Depth: 0-300M
Time: 0844-0911 = 27 mins.
Tows 2: 0844-50, 0845-48, 0846-40, 0846.5-33, 0846.75-30, 0846.80-21, 0847-18, 0848-18, 0848.5-22, 0849-27, 0849.5-30, 0850-32, 0850.25-42, 0850.5-47, 0850.75-52, 0851-53, 0851.5-53, 0854-52, 0855-52, 0856-51, 0857-50, 0858-50, 0859-48, 0900-46, 0901-49, 0902-41, 0902.5-42, 0903-45, 0905-51, 0906-52, 0907-59, 0907.5-60, 0908-63, 0909-67, 0910-72. Mags: 0856.5-51, 0858.5-49.
Vol. H2O filled: 1900 M3
Displ. vol: 33 ml. = 17 ml. / 1000 M3

34-45½, 50-0½ W 34-42½, 50-7½ W

SERIAL NO. 1577

August 22, 1955

Sample V7-39
½ M net

Depth: 0-300M
Time: 1740-1811 = 31 mins.
Vol. H₂O filtered: 30 M³
Displ vol: 10 ml. = 33 ml / 100 M³

1 M net

Depth: 0-300M
Time: 1743-1809 = 26 mins.
Wire L: 1743-60, 1744-64, 1745-64, 1746-65, 1747-62, 1748-60, 1749-62, 1750-60, 1752-60, 1753-60, 1755-55, 1758-52, 1759-52, 1800-49, 1801-45, 1802-42, 1803-42, 1804-42, 1805-41, 1806-42, 1807-46, 1808-55 mesh. 1754-56, 1756-53.
Vol. H₂O filtered: 15 M³
Displ vol: 48 ml. = 27 ml / 100 M³

34-18N, 51-22W to 34-19N, 51-23W

August 23, 1955

Sample V7-40
½ M net

Depth: 0-300M
Time: 0846-0917 = 31 mins.
Vol. H₂O filtered: 30 M³
Displ vol: 6 ml.

1 M net

Depth: 0-300M
Time: 0849-0915 = 26 mins.
Wire L: 0849-50, 0850-47, 0851-47, 0852-45, 0853-45, 0853.5-42, 0854-42, 0855-42, 0856-43, 0857-47, 0858-44, 0859-49, 0900-50, 0901.5-48, 0902-45, 0902.5-40, 0903.5-37, 0904-34, 0905-31, 0905.5-28, 0906-28, 0906.5-27, 0907-28, 0908-36, 0908.5-42, 0909-45, 0909.5-43, 0910-52, 0911-56, 0912-54, 0912.5-61, 0913-65, 0913.5-66, 0914-69, 0914.5-70.
Vol. H₂O filtered: 180 M³
Displ vol: 32 ml. = 18 ml / 100 M³

33-15N, 51-37W

August 23, 1953

Sample V7-41
½ M net

Depth: 0-300M
Time: 1745-1808 = 23 min.
Vol. H2O filtered: 27 M3
Displ. vol: 10 ml.

1 M net

Depth: 0-300M
Time: 1746-1805 = 19 min
Wire: 1746-60, 1748-60, 1749-60, 1750-60, 1751-60, 1752-60, 1753-58, 1754-57, 1755-57, 1756-58, 1758-54, 1758.5-57, 1759-60, 1800-61, 1802-62, 1804-64, 1805-64, 1806-65. max. 1754-1756.
Vol. H2O filtered: 1300 M3
Displ. vol: 31 ml.

32-534, 55-

SERIAL NO. 1578

August 24, 1953

Sample V7-42
½ M net

Depth: 0-300M
Time: 0835-0904 29 min.
Vol. H2O filtered: 29 M3
Displ. vol: 1 ml.

1 M net

Depth: 0-300M
Time: 0837-0901 = 24 min.
Wire: 0837-70, 0838-63, 0839-65, 0840-60, 0840.5-53, 0841-52, 0842-43, 0842.5-40, 0843-40, 0844-37, 0844.5-32, 0845-30, 0845.5-27, 0846-26, 0846.5-27, 0847.5-34, 0848-36, 0848.5-40, 0849.5-44, 0850-45, 0851-46, 0851.5-45, 0852-48, 0853-52, 0853.5-51, 0855-53, 0856-53, 0850.5-53, 0857.5-54, 0858-56, 0858.5-55, 0859-54, 0859.5-57, 0860-57, max. 0847-31, 0844-42
Vol. H2O filtered: 1600
Displ. vol: 22 ml. hyalosp (1 calo, 1 ctenophore, 1 siphonophore squid + sargassum)
12 ml. mollusc.

DNR, CI-3

August 24, 1955

Sample V7-43
½ M net

Depth: 0-300M
Time: 1752-1829 = 36 min.
Vol. H2O filtered: 37 M³
Displ. vol: 12 ml small zg.
26 ml bay = salps, 1 siphonophore, + 1 squid

1 M net

Depth: 0-300 M
Time: 1756-1824 = 28 min.
Wire: 1756-65, 1758-65, 1800-65, 1802-67, 1804-67, 1806-65, 1807-61, 1808-57, 1809-57, 1811-58, 1814-60, 1816-60, 1818-63, 1820-63, max. 1808-58, 1810-58.
Vol. H2O filtered: 2100
Displ. vol: 10 ml. large zg. (salps, siph. + 1 squid).
55 ml. small zg.

32-20 N, 67-30 W

Net was opened below the surface, did not close on surface when hauled up.

SERIAL NO. 1579

August 25, 1955

Sample V7-44
½ M net

Depth: 0-300 M
Time: 0845-0923 = 38 min.
Vol. H2O filtered: 38 M³
Displ. vol: 5 ml (large Carinaria not included).

1 M net

Depth: 0-300 M
Time: 0851-0918 (2nd msgr.) 27 min.
Wire: 0853-50, 0854-50, 0855-50, 0858-49, 0857-49, 0858-49, 0859-50, 0900-48, 0902-47, 0903-45, 0905-43, 0907-42, 0908-41, 0908.5-40, 0909-42, 0910-41, 0911-41, 0912-42, 0913-41, 0914-44, 0915-45, 0916-47, 0917½-46. max. 0904-44, 0906-41.
Vol. H2O filtered: 1800
Displ. vol: 32 ml. small zg.
10 ml. lg. zg. (salps + 1 squid).

32 20 N, 67 30 W.

Steaming in a straight line. 2nd msgr. release set off at surface when 1st msgr. was set down. Net was hauled in and reset so as to simulate correct operation of 1st msgr. 2nd msgr. closed net at. at end of tow (below the surface).

August 25, 1955

Noted the first red-billed tropic bird we have seen in some days (since last noted in this log) this afternoon at 1215.

August 25, 1955

Sample VP-45
12 M net

Depth: 0-300M
Time: 1756-1835 - 39
Vol. H2O filtered: 39 M3
Displ. Vol.: 10 ML

1 M net

Depth: 0-300M
Time: 1802-1830 ~~not to be used for plotting~~ 28
Wire: 1802-55, 1804-55, 1805-55, 1806-53, 1807-55, 1809-55, 1813-53, 1814-55, 1815-55, 1817-55, 1818-53, 1819-54, 1820-53, 1821-54, 1821-55, 1822-53, 1824-53, 1825-55, 1826-55, 1828-57. ~~1842~~ - 1814.
Vol. H2O filtered: 1900 M3
Depth wl: 38M

at start wire & tow gear and net did not open on first surge. Net hauled back up and stopped to simulate usual surge operation. Net then sent down

Kozi [illegible] 46

SERIAL NO. 1580

August 26, 1955

Sample V7-46
½ Mnet

Depth: 0-300M
Time: 0200-0249 = 49 min
Vol. H₂O filtered: 49 M³
Displ vol: 12 ML

1 Mnet

Depth: 0-300M
Time: 0208-0242 = 34 min.
Miles: 0211-27, 0211.5-28, 0212-32, 0212.5-35, 0213-39, 0213.5-43, ~~0213.5-43~~, 0214-44, 0214.5-46, 0215-47, 0215.5-52, 0216-51, 0217-54, 0218-55, 0219-58, 0220-58, 0221-59, 0222-60, 0223-59 max depth, 0224-59, 0225-57, 0226-58, 0227-55, 0228-55, 0229-55, 0230-55, 0231-56, 0232-58, 0233-58, 0234-58, 0235-57, 0236-54, 0237-52, 0238-52, 0239-53, 0240-52, 0241-58, max 0222+0224
Stopped 0238 to 0237? because mile to close to ship.
Vol. H₂O filtered: 2300
Disp Vol. 48ML

SERIAL NO. 1581

August 26, 1955

Sample V7-47
½ Mnet

Depth: 250-500 fathom net. Max Depth = 450m.
Time: appro 0250 - 0315 = 85
Vol. H₂O filtered: 8[illegible] M
Displ vol: 5 ML

1 Mnet

net lost due to weak spring on closing pin of release.
Miles: ~~0250-54~~, 0258-53, 0259-48, 0300-44, 0301-40, 0305-37, 0302-32, 0302.5-27, 0303-22, 0304-20, 0304.5-24, 0305-24, 0306-38, 0306.5-44, 0307-47, 0308-45, 0309-48, 0310-46, 0312-42, 0313-45, 0314-42, 0314-38, 0315-30, 0315-26, 0315-22, 0316-19, 0316-22, 0317-30, 0317-35, 0318-39, 0319-40, 0320-42, 0321-41, 0322-38, 0322.5-35, 0323-38, 0323.5-24, 0324-18, with ship 0324.5-09, 0325-08, 0325.5-24, 0327-45, 0329-50, 0330-40, 0331-30, 0332-25, 0333-22, 0333.5-30, 0334-38, 0334.5-41, 0334.75-48, 0335-51, 0335.25-55, 0335.5-57, 0336-62, 0337-65, 0337.25-64, 0337.5-71, 0338-72, 0339-71, 0340-71, 0340.5-72, 0341-74, 0341.5-73, 0342.5-69, 0343-68, 0344-65, 0345-62, 0345.5-61, 0346-58, 0347-58, 0347.5-56, 0348-55, 0349-53, 0350-53, 0351-53, 0352-52, 0354-48, 0355-47, started up from 350 fath out at 0359. 0356-50, 0357-47, 0358-46, 0359-46, 0400-45, 0401-44, 0403-41, 0404-40, 0405-40, 0406-40, 0407-42, 0408-41, 0409-44, 0410-45, 0411-47, 0412-50, 0413-50, 0414-52, 0415-47, 0416-46, 0417-43, 0418-40
max at 0326 w 139, left max. 0328-46, reach 250 fath at 0442
started back down at 0344, reached 350 fath out at 0351.

August 26, 1955

During the deep BT cast three sharks circled about the ship for over an hour. All appeared to be the same species - one about 8 feet long was hooked and hauled half-way into the ~~ship before~~ by Craigie and myself before the line was cut by the shark's teeth. The other two were smaller - about 5 feet. One had 3 pilot fish, one had 2 and one had one.

The one with 2 pilot fish also had a small Remora attached to the dorsal side of the left pectoral fin. All the sharks had white tipped dorsal and pectoral fins and a black spot ~~about~~ dorsal and ventral on the caudal peduncle. They were very heavy through the head region.

August 26, 1955

Scientific Party of V7.

Edward T. Miller
Julius Hirshman
Nicolaie Pukatch
Charles Kershaw
John Fargo
Kenny Olsen (Red)
George R. Johnson
David Craigie
Peter Buchanyer
Donald Sitton
Daniel R. Jones (Dan)
Marcus E. Langseth
Manik Talwani
Robert J. Manzi
Robert Bisi

Crew

Laurent Brackx Master
Arvo Ek 1st mate
Rynd R. Simonsen Rad. Op.
Simon Potyn; Boat!
Ernest McCallum British O.S.
Charles Forker - cabin-Harvard Legal.

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